

highlighted number 601. Alternatively, the user may tap the number on the screen (with a stylus or finger), or may press a jog rocker control (not shown).

[0172] Referring now to Fig. 6E, there is shown screen 640, which contain various user interface elements that are relevant to a call in progress. The name and number of the called party are displayed 641, as well as an indication that the call is active 644 and a call timer 642. Additional controls 643 are provided, for operations such as hang up, hold, extra digits, or keypad.

[0173] Referring now to Figs. 7A through 7D, there are shown screen shots depicting an example of a direct-dial operation according to one embodiment of the present invention, where feedback for two operations is displayed concurrently when appropriate. The screen shots of Figs. 7A through 7D correspond to the method described above in connection with Fig. 3B. In the example shown, the user is attempting to dial the number 730-788-5457.

[0174] Since the user is attempting to dial 730-788-5457 he or she first presses the key having a numeric secondary value of "7". At this point, screen 700 is displayed, as depicted in Fig. 7A. Screen 700 displays dial string 611 containing the numeric value of the entered key, which is "7".

[0175] Since the primary value of the "7" key is the letter "B", screen 700 also shows the results of a filtering operation on the directory using the letter "B", including records from the directory that begin with the letter "B". Additional records that begin with "B" may be available, and may be accessed by scrolling. The filter is applied to multiple fields, so that the displayed records

include those having a first name beginning with "B" (Biff Henderson), as well as those having a last name beginning with "B" (John Birch, CJ Bush). In one embodiment, records having a company name, or initials, or other relevant field that begins with "B" would also be displayed. The first telephone number in the first displayed record is selected (as indicated by highlight 604), although in alternative embodiments other records might be selected. Screen 700 also includes lookup string field 605 that displays the lookup string, consisting of the primary values for the keystrokes entered thus far. Accordingly, a "b" is currently displayed, indicating that the user has entered the letter "B". Again, in an alternative embodiment, lookup string field 605 is not displayed, or the display of lookup string field 605 is configurable by the user.

[0176] At this point the invention cannot determine whether the user is attempting to look up a directory record or direct-dialing a telephone number. In fact, the behavior of the user at this point is identical to the behavior of the user in the previous example prior to the display of screen 610, since in both cases the "B" key (having a secondary value of "7") was pressed. Thus, screen 700 is identical to screen 610.

[0177] Continuing to dial the number, the user presses the key having a numeric secondary value of "3". At this point, screen 701 is displayed, as depicted in Fig. 7B. Dial string 611 is displayed, and now reads "73", corresponding to the numeric values of the two keys thus far entered.

[0178] Since the primary value of the "3" key is the letter "I", screen 700 also shows the results of a filtering operation on the directory using the lookup string "BI", including records from the directory that begin with the letters "BI". Again, additional records that begin with "BI" may be accessible via scrolling. Now, two records are displayed: Biff Henderson (since the first name begins with "BI") and John Birch (since the last name begins with "BI"). Lookup string field 605 now shows "bi".

[0179] Since the invention still cannot determine whether the user is performing directory lookup or direct-dial, both forms of feedback are still displayed. In fact, the behavior of the user at this point is identical to the behavior of the user in the previous example prior to the display of screen 620, since in both cases the "B" key and the "I" key (having secondary values of "7" and "3", respectively) were pressed. Thus, screen 701 is identical to screen 620.

[0180] Next, the user presses the key having a numeric secondary value of "0". At this point, screen 720 is displayed, as depicted in Fig. 7C. Dial string 611 is displayed, and now reads "730", corresponding to the numeric values of the three keys thus far entered.

[0181] The primary value of the "0" key is a symbol, which has special meaning when entering text. It is used for accessing special symbols that are not displayed on the keyboard. No records in the database begin with the string "BI" followed by a special symbol. Thus, the filtering operation on this lookup string yields no results, and no records are now displayed. The invention can